PATENT COOPERATION TEGATY

From the

То:			PCT				
see form PCT/ISA/220			WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORIT (PCT Rule 43 <i>bis</i> .1)				
			Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) FOR FURTHER ACTION See paragraph 2 below				
Applicant's or agent's see form PCT/ISA							
International application		International filing date (day/month/year)	Priority date (day/month/year)			
PCT/US2004/0008	358	14.01.2004		14.01.2003			
International Patent C H04J3/06, G06F1		both national classification	and IPC				
Applicant HONEYWELL IN	ERNATIONAL I	NC.					
1. This opinion	contains indication	ons relating to the foll	owing items:				
⊠ Box No. I	Basis of the op	pinion					
☑ Box No. II	Priority						
☐ Box No. III	Non-establishn	nent of opinion with rega	ard to novelty, inventiv	ve step and industrial applicability			
☐ Box No. IV		Lack of unity of invention					
☐ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step of applicability; citations and explanations supporting such statement							
☐ Box No. VI	Certain docum	Certain documents cited					
🛛 Box No. VI	l Certain defects	in the international app	olication				
☐ Box No. VI	II Certain observa	ations on the internation	nal application	•			
2. FURTHER AC	TION			•			
written opinion the applicant c	of the Internationa hooses an Authori ureau under Rule (al Preliminary Examining ty other than this one to	g Authority ("IPEA"). F be the IPEA and the	usually be considered to be a dowever, this does not apply where chosen IPEA has notifed the tional Searching Authority			
submit to the If	PEA a written reply e date of mailing o	together, where approp	priate, with amendme	PEA, the applicant is invited to nts, before the expiration of three of 22 months from the priority date,			

Name and mailing address of the ISA:



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For further options, see Form PCT/ISA/220.

For further details, see notes to Form PCT/ISA/220.

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Authorized Officer



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/000858

	Box N	lo. I Basis of the opinion						
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was field, unless otherwise indicated under this item.							
	la	his opinion has been established on the basis of a translation from the original language into the following nguage , which is the language of a translation furnished for the purposes of international search under Rules 12.3 and 23.1(b)).						
2.	With reneces	egard to any nucleotide and/or amino acid sequence disclosed in the international application and sary to the claimed invention, this opinion has been established on the basis of:						
	a. type	e of material:						
		a sequence listing						
		table(s) related to the sequence listing						
	b. form	nat of material:						
		in written format						
		in computer readable form						
	c. time	of filing/furnishing:						
		contained in the international application as filed.						
		filed together with the international application in computer readable form.						
		furnished subsequently to this Authority for the purposes of search.						
3.	ha co	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto s been filed or furnished, the required statements that the information in the subsequent or additional pies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.						
4.	Additio	nal comments:						

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/000858

	Po	c No. II	Driority			· · · · · · · · · · · · · · · · · · ·				
_								· · ·		
1.	\boxtimes	The following document has not been furnished:								
		\boxtimes	copy of the earlier	applicatio	n whose p	riority has bee	n claimed (Ru	le 43 <i>bis</i> .1 and 66.	7(a)).	
			translation of the	earlier app	lication wh	ose priority ha	s been claime	d (Rule 43 <i>bis</i> .1 ar	nd 66.7(b)).	
			quently it has not b heless been establi							
2.		This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.								
3.	Add	litional d	observations, if nec	essary:						
									•	
_		No. V	Reasoned state					ovelty, inventive	step or	
1.	Stat	ement							•	
	Nov	elty (N)		Yes: No:	Claims Claims	1-10				
	Inve	ntive st	ep (IS)	Yes:	Claims			•		
				No:	Claims	1-10				
	Indu	ıstrial ap	oplicability (IA)	Yes: No:	Claims Claims	1-10		٠.		
2.	Cita	tions an	d explanations							
	see	separa	te sheet							
	Вох	No. VII	Certain defects	in the inte	ernational	application				
_					•					

The following defects in the form or contents of the international application have been noted:

see separate sheet

Re Item V.

1 The following documents are referred to in this communication:

D1: EP 0 809 374 A (LANDIS &; GYR TECH INNOVAT) 26 November 1997

(1997-11-26)

D2: US 5 661 700 A (WEPPLER ROBERT C) 26 August 1997 (1997-08-26)

D3: US-A-5 276 659 (KOTAKI KOJI) 4 January 1994 (1994-01-04)

2 INDEPENDENT CLAIM 1

- 2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject matter of claim 1 does not involve an inventive step in the sense of Article 33(3)PCT.
- 2.1.1 Document D1, which is considered to represent the most relevant state of the art to the subject matter of claim 1, discloses (the references in parenthesis applying to this document; features not disclosed are in strikeout):

A method for controlling a time synchronization relationship between a communications network time (FZ) and a module located at a node (FU1..FUN) connected to said communications network for providing a module reference time

(Abstract, Fig.1, Fig.2), said method comprising:

determining a time synchronization function is enabled (col.4, lines 11-17)

determining a time difference (Δt) between said communications network time and said module reference time provided by said module

determining that said determined time difference is greater than a first limit (P1), and less than or equal to a second limit (P2); and

gradually adjusting, automatically, said communications network time to synchronize with said module reference time over a predetermined synchronization interval.

- 2.1.2 The subject-matter of independent claim 1 differs from the disclosure of D1 in that it provides a gradual adjustment of the time to be synchronized. D1 only discloses that the error is adjustment by a single correction step
- 2.1.3 The problem to be solved by the present invention may therefore be regarded as to avoid gaps in the synchronized time.
- 2.1.4 In view of D2 the solution proposed in claim 1 of the present application cannot be considered as involving an inventive step (Article 33(3) PCT) because D2 discloses (col.2, lines 46-52; Table 1) an automatic gradual adjustment of the time to be synchronized
 - 2.1.5 Therefore the features disclosed in D1 and D2 would be combined by the skilled person, without exercise of any inventive skills in order to solve the problem posed. The proposed solution in independent claim 1 thus cannot be considered inventive (Article 33(3) PCT).
- 2.1.6 Also In view of D3 the solution proposed in claim 1 of the present application cannot be considered as involving an inventive step (Article 33(3) PCT) because D3 discloses (Claim 1; col.3, lines 8-26) an automatic gradual adjustment of the time to be synchronized
- 2.1.5 Therefore the features disclosed in D1 and D3 would be combined by the skilled person, without exercise of any inventive skills in order to solve the problem posed. The proposed solution in independent claim 1 thus cannot be considered inventive (Article 33(3) PCT).

3 INDEPENDENT CLAIM 7

3.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject matter of claim 7 does not involve an inventive step in the sense of Article 33(3)PCT as it only refers to a device ("module") corresponding to the method of claim 1. The reasoning of lack of inventive step as presented in §2 above applies accordingly to claim 7.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/US2004/000858

4 DEPENDENT CLAIMS 2-6, 8-10

Dependent claims 2-6, 8-10 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step (Article 33(2) and (3) PCT).

Re Item VII.

Claims 8-10 have to be referenced to claim 7 and not to claim 12 or claim 14, which both do not exist.